TAPER, BUFFER ZONE & SIGN SPACING CHART

ROAD	POSTED SPEED MPH (S)	MINIMUM TAPER LENGTH(L)	LENGTH OF BUFFER(BZ)	MINIMUM SIGN SPACING (SS)				ONE LANE TWO-WAY FLAGGING	
TYPE		12'LANE CLOSURE	DESIRABLE	А	В	С	D	TAPER LENGTH	
		fee†	feet	feet	feet	feet	feet	feet	
	30 AND LOWER	180	200	100	100	100	100	_	
	35	245	250	750	350	350	175	50	
00111511510111	40	320	305	350					
CONVENTIONAL	45	540	360		500	500	250	100	
	50	600	425	500					
	55	660	495	300					
	60	720	570]					
	65	780	645						
FREEWAY/	65	780	645	1000	1640	2640	500		
EXPRESSWAY	70	840	730	1000	1640				
LXI KESSWAT	75	900	820						

1- TAPER LENGTH FORMULAS

SPEED							FORMULA
FOR	SPEEDS	OF	40	MPH	AND	LESS	$L = \frac{\text{WS}^2}{60}$
FOR	SPEEDS	OF	45	MPH	AND	GREATER	L= WS

L = TAPER LENGTH IN FEET W = WIDTH OF OFFSET IN FEET

S = SPEED IN MPH

1/3 L = FOR SHOULDER CLOSURE TAPER 1/2 L = FOR LANE SHIFT TAPER

2- CHANNELIZING DEVICES

- A) MERGING AND SHIFTING TAPERS: USE A MINIMUM OF 1 DEVICE PER FOOT OF LANE CLOSURE, PLUS 1 ADDITIONAL DEVICE TO START.
- B) SHOULDER, ONE-LANE TWO-WAY, AND DOWNSTREAM TAPERS: USE A MINIMUM OF 1 DEVICE PER 3 FEET OF WIDTH (OR PORTION THEREOF), PLUS 1 ADDITONAL DEVICE TO START.
- C) ON TANGENT: S \times 2 = SPACING UP TO 120 FEET MAXIMUM.
- D) LENGTH OF BUFFER ZONE (BZ) IS THE DISTANCE FROM END OF LANE CLOSURE TAPER TO WORK SPACE, OR ANY OBSTRUCTION PRIOR TO WORK SPACE.

TRAFFIC CONTROL DEVICE LEGEND



SIGN (FIXED OR PORTABLE)



PLASTIC DRUMS/DIRECTIONAL INDICATOR BARRICADE



FLAGGING STATION



ADVANCE WARNING ARROW PANEL



DIRECTION OF TRAFFIC

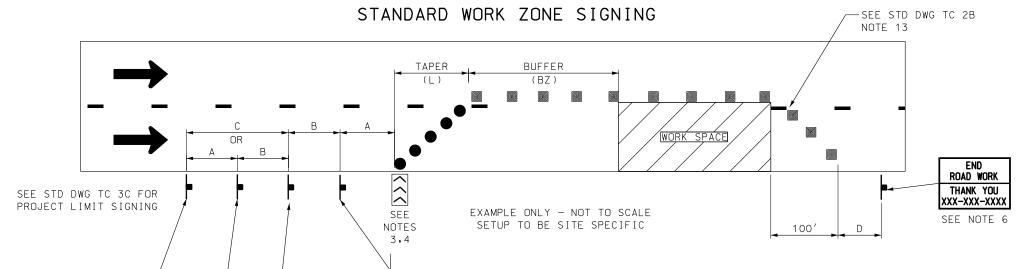


TYPE III BARRICADE

BARRIER



DIRECTION OF WORK VEHICLE





NOTES:

- 1. USE THE POSTED SPEED LIMIT PRIOR TO WORK ZONE TO COMPUTE THE SIGN SPACING, TAPER LENGTH, BUFFER ZONE, AND WORK CLEAR ZONE DISTANCE. USE THE POSTED SPEED LIMIT DURING WORK TO DETERMINE THE TANGENT SPACING FOR CHANNELIZING DEVICES.
- 2. SIGN MAY BE USED ANYTIME IN WORK ZONE IN PLACE OF EXISTING SPEED LIMIT SIGNS (NO CHANGE IN SPEED LIMIT).
- 3. PLACE ADVANCE WARNING ARROW PANEL ON SHOULDER WHEN AVAILABLE. WHEN NO ADEQUATE SHOULDER IS AVAILABLE, PLACE ARROW PANEL IN FIRST 1/3 OF TAPER IN THE CLOSED LANE.
- 4. USE SHOULDER TAPER WHEN ARROW PANEL IS PLACED ON SHOULDER.
- 5. USE SUPPLEMENTAL LEFT SIDE SIGNING FOR HIGH-SPEED DIVIDED HIGHWAYS.
- 6. SEE STD DWG TC 3D FOR SIGN DESIGN AND LAYOUT.
- 7. USE "FINES DOUBLE" SIGNING AT ALL MAJOR INTERSECTIONS/INTERCHANGES WITHIN THE PROJECT WHEN "FINES DOUBLE" OPTION IS USED.

RANSPORTATION
BRIDGE CONSTRUCTION

UTAH

TANDARD WORK ZONE SIGNING GENERAL ST₁

STD. DWG. NO. TC 3A

SUPPLEMENTAL DRAWING

WORK

AHEAI

WORK ZONE

FINES DOUBLE FOR SPEEDING

OPTIONAL

SEE NOTES 6,7

CLOSED

OR

RIGHT LAN